Roll No. …………………..

BCA–E-605

B. C. A. (Sixth Semester)
EXAMINATION, 2021-22

PROGRAMMING USING PYTHON

Time : $2\frac{1}{2}$ Hours

Maximum Marks : 60

Note : Attempt all questions.

Section—A

1. Multiple choice questions :   1 each

    (i)   Python is developed in :   (CO1, BL1)

        (a)   1982

        (b)   1981

        (c)   1980

        (d)   None of the above

    (ii) Python is currently the most widely used :

                                    (CO2, BL2)

        (a)   High-level Programming Language

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(b) Low-level Programming Language

(c) Middle-level Programming Language

(d) None of the above

(iii) Python is currently the most widely used :

(CO2, BL2)

(a) Structural Programming Language

(b) Procedural Programming Language

(c) Object Oriented Programming Language

(d) None of the above

(iv) In Python, comments begin with a : (CO4, BL2)

(a) @

(b) ##

(c) #

(d) None of the above

(v) In Python '**' operator is used for : (CO1, BL1)

(a) Exponentiation

(b) Exception

(c) Extension

(d) None of the above

(vi) What will be the output of the following Python code ?   (CO5, BL5)

import keyword

print(keyword.kwlist)

(a) print all keywords after every enter

(b)   print first 20 keywords after single enter

(c)   print all keywords after every enter

(d)   print a list of all keywords at once

(vii) In Python PEP stands for :   (CO2, BL1)

(a)   Python Encrypted Proposal

(b)   Python Enhancement Proposal

(c)   Python Exceptional Programming

(d)   None of the above

(viii) Strings are stored as UTNICODE by default in :

(CO6, BL6)

(a)   Python 1

(b)   Python 2

(c)   Python 3

(d)   None of the above

(ix) Suppose list is [2, 33, 222, 14, 25], What is list
[– 1] ?   (CO4, BL5)

(a)   Error

(b)   None

(c)   25

(d)   2

(x) Which of the following functions can help us to find the version of Python that we are currently working on ?   (CO2, BL1)

(a) sys.version(1)

(b) sys.version(0)

(c) sys.version( )

(d) sys.version

(xi) Which of the following is not a core data type in Python programming ?   (CO3, BL1)

(a) Tuples

(b) Lists

(c) Class

(d) Dictionary

(xii) What will be the output of the following Python statement ?   (CO2, BL1)

>>>"a"+"b"

(a) bc

(b) abc

(c) a

(d) bca

2. Attempt any *four* of the following (Short answer type questions) : 3 each

   (a) What are the key features of Python ? (CO1, BL1)

   (b) What is the difference between list and tuples in Python ? (CO2, BL4)

   (c) What are local variables and global variables in Python ? (CO4, BL2)

   (d) How do we create the database connection in Python ? (CO4, BL6)

   (e) Describe the use of sea born library. (CO5, BL2)

Section—B

3. Attempt any *two* of the following : 6 each

   (a) Write a program in Python to print a Fibonacci series upto *n* number. (CO1, BL6)

   (b) Write a program in Python to check whether a given number is Armstrong number or not.

   (CO2, BL6)

   (c) How can the ternary operators be used in Python ? (CO4, BL4)

4. Attempt any *two* of the following : (CO4, BL4)

   (a) What are the common built-in data types in Python ? (CO1, BL3)

   (b) Explain values and items methods used in dictionary with example. (CO2, BL3)

P. T. O.

(c) How to add and remove values to a Python array ?   (CO4, BL3)

5. Attempt any *two* of the following :   6 each

(a) Explain inheritance in Python with an example.

(CO3, BL1)

(b) What is Python ? What are the benefits of using Python ?   (CO2, BL2)

(c) What are the use of different library in Python ? Why do we use it ? Justify your answer.

(CO5, BL4)